

AMENDMENTS TO THE ABSTRACT:

Please replace the abstract with the following rewritten listing.

~~The present invention concerns a~~The method and a~~/device for reconstructings and~~
~~/representing~~represents multidimensional objects from one- or two-dimensional image
data, particularly from ultrasound image data, based on recordings (7) of one- or two-di-
mensional partial image areas (6) of an object (1), wherein the spatial and/or
chronological positions of the individual partial image areas (6) are used along with the
one- or two-dimensional image information (13) of the individual partial image areas (6)
to generate one- or two-dimensional image data, wherein a first group of space elements
(15a) is generated in a multidimensional voxel space (9) from first space elements (10a)
which contain multidimensional image information and touch or intersect planes or
lines of partial image areas (6) by means of the one- or two-dimensional image data, and
wherein a second group of space elements (15b) is generated in the multidimensional
voxel space (9) from second space elements (10b) by means of an information
transformation from the multidimensional image information of the first group of space
elements (15a). The first space elements (10a) are defined by means of the partial image
areas (6) by arranging the partial image areas these areas (6) in the multidimensional
voxel space (9). For example, the second space elements (10b) can be determined on the
basis of a spatial/chronological distance transformation or by means of so-called search
beams.